

CLAIMS

1-41. (Cancelled)

42. (New) A method for communicating information in a radiocommunication system

comprising:

measuring, at a mobile station, a temperature level;

comparing said measured temperature level with a threshold temperature level; and

transmitting an indication from said mobile station to said system if said measured

temperature exceeds said threshold temperature level.

43. (New) The method of claim 42, further comprising outputting a local indication at said

mobile station if said measured temperature exceeds said threshold temperature level.

44. (New) The method of claim 42, further including:

reallocating resources within said system in response to said indication to establish a

reduced transmission rate.

45. (New) The method of claim 44, wherein said reallocating resources within said system

further comprises:

allocating in N timeslots per frame rather than M timeslots per frame to establish a

reduced transmission rate, where $M > N$.

46. (New) The method of claim 44, wherein said reallocating resources within said system

further comprises:

using N codes rather than M codes in a CDVIA system, where $M > N$.

47. (New) The method of claim 44, wherein said reallocating resources within said system further comprises puncturing a code.
48. (New) The method of claim 44, further comprising:
 providing an indication from said system to said mobile station that said reduced transmission rate is being established based on said measured temperature.
49. (New) The method of claim 48, further comprising displaying said reduced transmission rate at said mobile station responsive to said provided indication.
50. (New) The method of claim 48, further comprising displaying an icon at said mobile station indicating overheating responsive to said measured temperature exceeding said threshold.
51. (New) The method of claim 48, further comprising generating a sound effect indicating overheating.
52. (New) The method of claim 44, wherein said reallocating resources within said system in response to said indication of said measured temperature further comprises:
 transmitting, from said system to said mobile station, during at least one additional timeslot in a downlink.

53. (New) The method of claim 44, wherein said reallocating resources within said system in response to said indication of said measured temperature further comprises:

 permitting another mobile station to transmit during at least one timeslot on a frequency previously used by said mobile station in an uplink.

54. (New) The method of claim 44, wherein said reallocating resources within said system in response to said indication of said measured temperature further comprises:

 allocating a code used by said mobile station to another mobile station in a CDMA system.

55. (New) A transceiver comprising:

 a temperature measuring device for determining a temperature of said transceiver;
 a processor for comparing said measured temperature with a threshold temperature;
 and
 an output device for providing an indication of said measured temperature.

56. (New) The transmitter of claim 55 further comprising a transmitter for transmitting information over an air interface wherein said transmitter is configured to transmit an indication of said measured temperature over an air interface.

57. (New) The transceiver of claim 55, wherein said output device is a display.

58. (New) The transceiver of claim 55, wherein said output device is a speaker.

59. (New) A method for controlling a temperature of a mobile station in a radiocommunication system comprising:

- measuring a temperature of said mobile station;
- comparing said measured temperature to a threshold temperature; and
- reducing a transmission rate in response to said comparison.

60. (New) The method of claim 59, further comprising providing an indication at said mobile station of said reduced transmission rate.

61. (New) The method of claim 60, wherein providing an indication further includes providing an indication that said reduction in transmission rate is temperature related.

62. (New) The transceiver of claim 57, wherein said reduced transmission rate is displayed as a percentage of a maximum transmission rate.

63. (New) The transceiver of claim 62, wherein said maximum transmission rate is related to the maximum transmission rate of said transceiver.

64. (New) The transceiver of claim 57, wherein said reduced transmission rate is displayed as a percentage reduction from a maximum transmission rate.

65. (New) The transceiver of claim 64, wherein said maximum transmission rate is related to the maximum transmission rate allowed by a radiocommunication system within which said transceiver is operating.